TURBIN,	K.G.	Section of Profession in the Commission of the C		40 min
	Legume-fescue mixtures.  1. Voronezhskiy sel'skok	Zemledelie 27 no.l:75-76	Ja '65. (MTRA 18:3)	**
				4
		<b>~</b>		
n vivo za anazarek girar				E-S-C-

,	•	Los. N.Y.,	•		terra of heroozea in regreation y, the aixture in a accounts aix in and count in an	energy and the state of the second second	one with length of colli- one (diameter 4.) I gove to the colling of the thin roots of government of the colling of the thin roots of the colling of the colling of the colling of the personnel of the present of the personnel of the present of the personnel of t	grass of first Kepstriklaskly		
	USSM/Cultivated Flants - Podders. New Bour : Ref Zhur Biol., No 12, 1959, 53676	Presider, V.V., Middertor, Ta.K., Busilitis Juria, K.O.	Vermosh Institute of Agriculture The Effect of Sudan Grees on Soil Structury	Vesta. sit. mauti, 1957, No 4, 49-54	Experiments conducted by the Vorcoment Link Agriculture on leached our modium charge of 1951-1956, downed that toward the end of Young great and accountable of the first young of Bades great with vertal, posses of the first year of alther great of the first year of the accomplish	-8-	centuers/ha. idirtures of flutin grass with turns specified 30 kens of this roofs (41 kens than the gute sorting of Sudan grass of presential grasses. Forcet full., 2% of the fluting section of the secondated section of fluting specified of the fluting section of a structure of the societies of the section. The section of the section is the section of the section	under cover sowing of aifalfs with co ch year use - was 21.9 centhers/ha f.v.	*	
	UDSS/Cultivate	."	:	Orig Pub :	Abstract :		Ourd 2/3		9 mg	
		•					0	)		

TURBIN, L.I.; MALYGIN, V.V.

Alpine endogenetic mineralization of some regions in the western Tien Shan. Zakonom.razm.polezn.iskop. 7:385-387 '64.

(MIRA 17:6)

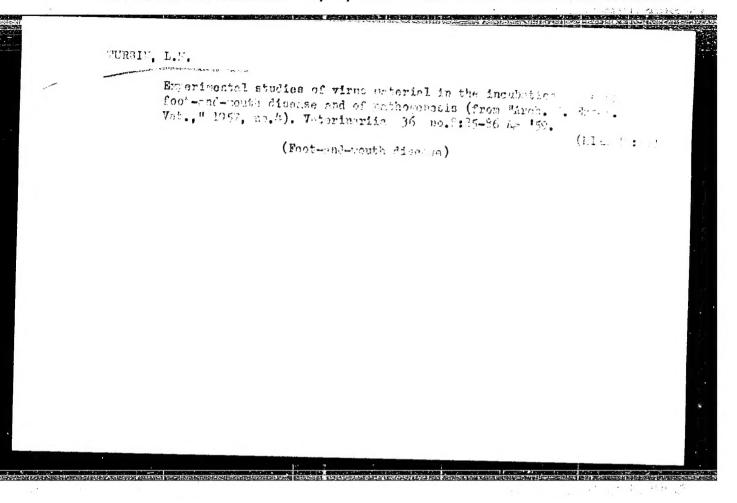
1. Upravleniye geologii i okhrany nedr pri Sovete Ministrov Kirgizskov SSR i Geologicheskiy institut Akademii nauk Kirgizskoy SSR.

TURBIN, L.I.

New data on the Upper Paleozoic stratigraphy of northeastern Fergana. Mat. po geol. Tian'-Shania no.3:107-120 '62. (MIRA 16:7) (Fergana-Geology, Stratigraphic)

TURBIN, L. M. (Senior Scientific Worker of the Leningrad MIVI Scientific Research Veterinary Institute.)

"Removal of the Self-Inhibitory Properties of the Foot-and-Mouth Disease Antigens when the Virus is Typed." Veterinariya vol. 33., no. 11., November 1961., p. 76



TURBIN, L.M.

TURBIN. L.M.: "The epizootology of hoof-and-mouth disease of agricultural animals and specific prophylaxis". Leningrad, 1955. Min Higher Education USSR. Leningrad Veterinary Inst. (Dissertations for the Degree of Candidate of Veterinary Sciences).

80: Knizhnava letonis' No 45, 5 November 1955. Mescow.

TURBIN, L.M., starshiy nauchnyy sotrudnik

Eliminating the self-inhibiting properties of foot-and-mouth antigens in the typing of the virus. Veterinariia 38 no.11276-77 N 161 (MIRA 18:1)

1. Leningradskiy nauchno-issledovatel\*skiy veterinarnyy institut.

TURBIN, L.N.

Creative initiative decides success. Avtom., telem. i sviaz' 8 no.5:24-27 My '64. (MIRA 17:10)

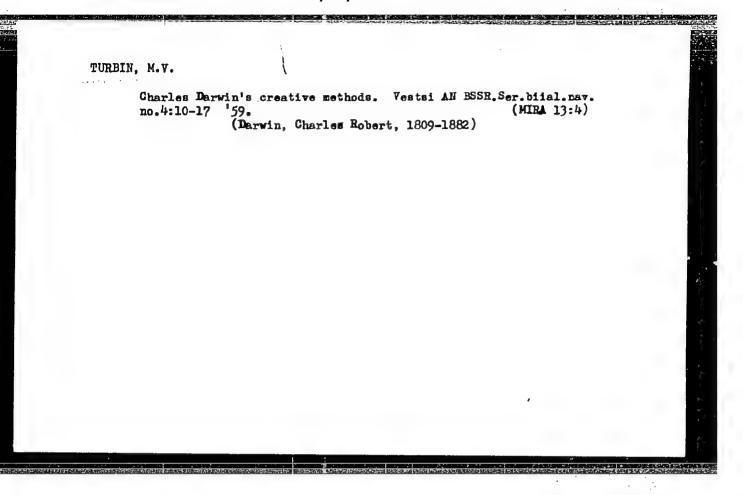
1. Zamestitel' nachal'nika Serpukhovskoy distantsii Moskovskoy dorogi.

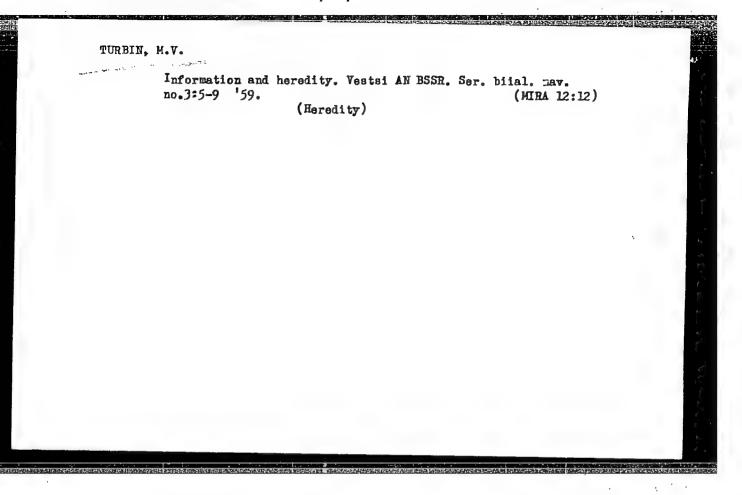
TURBIN, M.V.: ZAGREKOVA, V.M. [Zahrekava, V.M.]

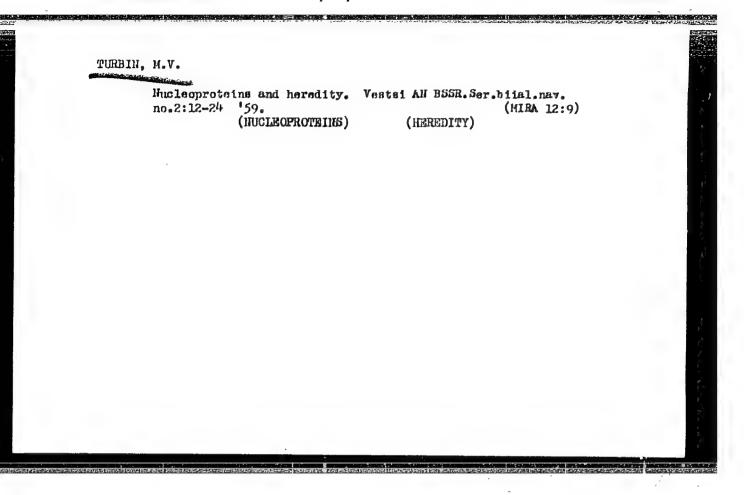
Morphological characteristics of F, and F, plants in remote hybridization. Vestsi AN BSSR. Ser. bital. nav. no.3:5-12 '60.

(WHEAT BREEDING)

(WHEAT BREEDING)







TURBIN, M.Z., ispolnyeyushchiy obyazomnesti detsenta

New economic system for catching ferromagnetic bodies from conveyor belos. Sbor. trad. Khab. avt. whos. inst. no.1:51-58 162.

(MIRA 18:1)

TURBIN, N.

PAULIN, Ya. TURBIN, N.

Building Machinery

Movable ladder-scaffold. Sel'.stroi. No. 4. 1952

1953. Unclassified. Monthly List of Russian Accessions, Library of Congress, November

TURBIN, N. I., jt. au. KOKIN, A. D. Building and architecture; basic ifformation. TH845.K6 1953
1. Building. 2. Architectuse. I Turbin, N.I., jt. au.

TURBIN, N. V.

USSR/Medicine - Hybridity

Medicine - Spectrum Analysis

Nov 1947

"Spectrophotometric studies of Plant Hybrids and the Biological Peculiarities of the SElective Absorption of Ultraviolet ays by Plant Tissues," N. 'urbin, 'Ye. Kozlov, Leningrad State University, State Optical Institute, 3 pp

"Dok Ak Nauk" Vol LVIII, No 6

Recently there has been increasing use of a spectrophotometric method of studying the absorption characteristics of various organs particularly for albumin. As a result a spectrophotometric study of the absorption of the ultraviolet rays by the protoplasm of plant growth was conducted to determine some type of biologic peculiarity in the absorption of certain rays. Submitted by Academician L.A. Orbeli 18 May.

PA 36T33

TURBIN, N. V.

Turbin, N. V. - "A triumph of Michurinist biology. The historical significance of the August meeting of the All-Union Academy of Agricultural Sciences imeni V. I. Lenin", Vestnik Leningr. un-ta, 1948, No. 10, p. 21-51.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).

TURBIN, N. V. 1 BOGDANOVA, E. N.

26294 K voprosy o prirode protsessa oplodotvoreniya u rasteniy. Izvestiya akad. nauk. sssr, seriya biol. 1949, No. 4, s 432-54---Bibliogr: 10 nazu.

SO: LETOPIS: NO. 35, 1949

USSR/Agriculture - Heredity, Mechanism Jul 16 (Contd.)  by Soviet biologists in the study of heredity which is evidenced by the indisputable facts of vegetative hybridization.  1/507	TURBIN, N. (Prof)		PA 1/50T4
	Glushchenko is a disciple and colysenko. Book is a survey of domerign literature on this subject of ign literature two this subject of s, and a clear statement of Glushcrimental data. It shows the advancemental	Agriculture - Heredity, Mechaniam Jul 49 Hybridization  ew of I. Ye Glushchenko's, 'Vegetative dization of Plants,'" Prof N. Turbin, t V. Razumov, l D.	SR/Agriculture - Heredity, Mechanism Jul 49 (Contd)  Sowiet biologists in the study of heredity ich is evidenced by the indisputable facts vegetative hybridization.

TURBIN, N. V. - God raboty posle avgustovskoy sessii VASHEHIL (imopyta Biol. Fak. 1ct). Vestnik vyssh. Shkely 1945 nc 7, S. 6-10

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

TURBIN N.V. professor; KOZLOV, V.Ye., nauchnyy sotrudnik.

Spectrophotometric study of the absorption of ultraviolet light by the living tissues of cotyledons of tomato hybrids and their parental forms. Nauch. biul. Len. un. no.22:27-28 '49. (MIRA 10:4)

l. Iaboratoriya genetiki rasteniy. (Ultraviolet rays--Physiological effect) (Plant cells and tissues)

Turbin, N. V.

USSA/Biology - Cross Pollination

"Influence of Self-Fertilization, During Interbreeding, on the Vitality of Mytridal Progeny," N. V. Turbin, Chair of Genetics, Leningrad State

Zhur Obsheh Biol, Vol 12, No 4, pp306-310 , 1937

Cross-pollination is of special interest in production of a hybrid of equal or better vigor than the original. Some proof substantiating existing theories may serve as a basis for evaluation of the significance of self-pollination in interbreeding; in the biology of fertilization and the physiology of heredity, the study of multiple pollination is quite essential in both scientific and practical respects. Incomplete data shows that the presence of own pollen in plants which have been cross-pollinated is useful.

265 Th

TURBIN, N V

EPP .R93001

NOVYYE DATHYYE MICHURIMSKOY BIOLOGII O PROTSESSE OPLODOTVORENTYA. MOSKVA, IZD-VO ZNANIYE, 1952.

29 P. ILLUS., DIACRS., TABLIS (VSESOYUZNOYE OBSHCHESTVO PO RASPECETRAMENTYU POLI-TICHESKIKH I NAUCHNYKH ZMANIY. 1952, SERIYA 2, NG. 54) RUSSIA

TURBIN, N.V., BOGAHOVA, TE. H., KHOROJHAVINA, A.M.

Fertilization of Plants

Findings in the study of repeated pollination of fecundated ovicells of the tomatoe. IZ AN SSSR. Ser. biol., No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

- 1. TURBIN, N. V. and DOMORYAD, N. P.
- 2. USSR(600)
- 4. Radishes
- 7. Strengthening the stability of inherited qualities in plants by selection under conditions of free cross-pollination. Vest.Len.un. 7 no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

- 1. TURBIN, N. V.
- 2. USJR (600)
- 4. Fertilization of Plants
- 7. What's new in the biology of fertilization. Vestl. Len. un. 7, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

TURBIN, N. V.

Hybridization, vegetable

Influence of the autogamous pollen in cross pollination upon the viability of the hybrid descendants. Zhur. ob. biol. 13, No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1958,2 Uncl.

- 1. TURBIN, N.V., PROF.; PALILOV, A.I.
- 2. USSR (600)
- 4. Plant Breeding
- 7. Castration of female spikes for the free intervarietal cross-pollination of wheat. Sel. i sem. 19 no.10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

- 1. TURBIN, N. V.
- 2. USSR (600)
- h. Fertilization of Plants
- 7. Biological role of supplementary pollination from a foreign species. Usp. sovr.biol. 34 No. 2, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

- 1. TURBIN, N. V.
- 2. USSR (600)
- 4. Plants-Reproduction
- 7. Dependence of fertility of plants and viability of their progeny on the state of maturity of the reproductive elements.

  Bot. zhur. 37 No. 6, 1952

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

TURBIN, N. V.

"Darwinism and the New Teaching on Species," Bot Zhur, Vol 37, No 6, Nov/Dec 1952, pp 798-818.

Article criticizes Lysenko

ra 24472 TURBIN, N. V. PROF Turbin, Leningrad State U imeni A. A. Zhdanov USSR/Agriculture, Biology -By fertilizing a plant several times, and using or the formation of ordinary hybrids can be riety and interspecies hybrids can be obtained, from that of the mother plant, triple intervaboth include that of the mother plant and differ pollen from plants of varieties or species which either animals or plants are crossed by this ducers (fathers) in addition to those of the variety hybrids of chickens, rabbits, and swine also proved applicable to the breeding of intercumbers, melons with pumpkins, etc. The method kin pollen, watermelons can be crossed with cuflowers can be fertilized by cucumber and pumpdiscovered at Leningrad State U, watermelon "Priroda" Vol 42, No 2, pp 101-104 Multiple Fertilization of Plants," Prof N. V. two sperm cells enter the same egg cell when mother. which acquire the characteristics of two prostimulated. method. Cytological examination showed that With the use of this new method Hybridization Feb 53 SITHS **SITHS** 

TURBIN, N. V.

USSR/Biology - Hybridization

1 Nov 53

"The Problem of the Biological Role of Repeated Pollination of Plants," N. V. Turbin, Leningrad State U

DAN SSSR, Vol 93, No 1, pp 167-169

Author presents facts which in his opinion prove that fertilization of a plant with pollen derived from two different plants results in inheritance of characteristics of both plants furnishing the pollen. He also states that both intervariety and interspecies crosses that have an increased

275T)

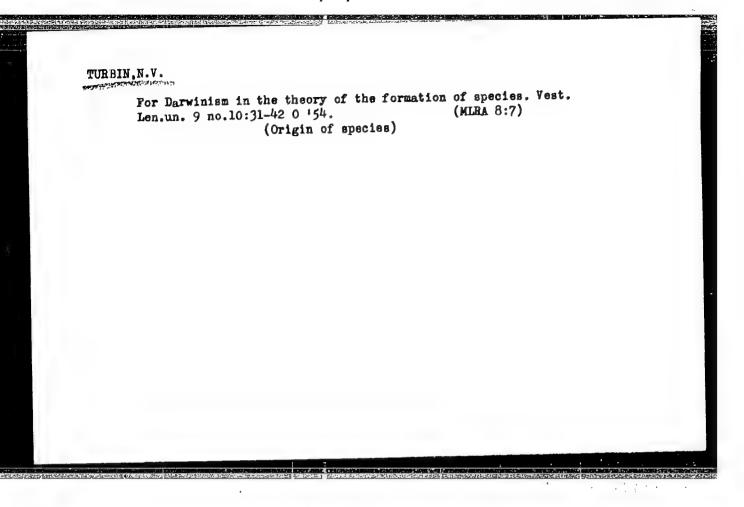
vigor can be obtained by this method of pollination. Presented by Acad V. N. Sukachev 11 Aug 53.

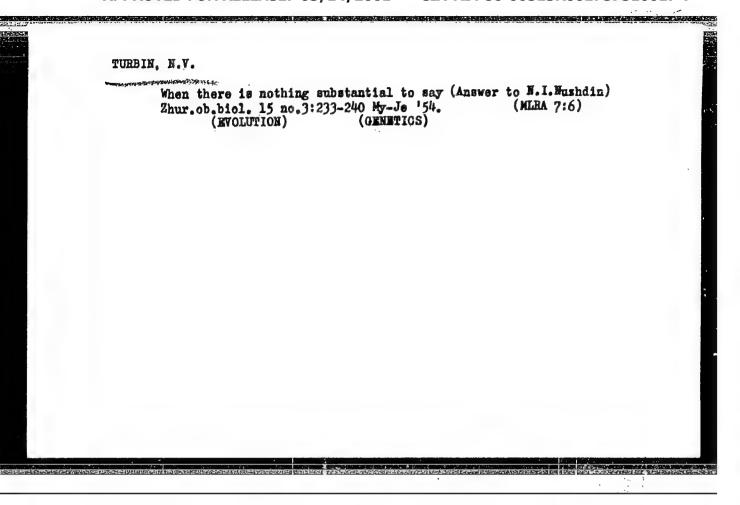
TURBIN, N. V. TURBIN, N.V., zavednyushchiy kafedroy; ZALIVSKAYA, Ye.I. Effect of the presence of antogenous pollen in crossbreeding on the viability of the hybrid progeny. Uch. 2ap. Len. un. no. 165:3-12 '53. (MIRA 7:7) 1. Kafedra genetiki i selektsii. (Fertilization of plants) (Hybridization, Vegetable)

TURBIN, N.V., professor, redaktor; MEG'NIKOVA, G.G., redaktor.

[Problems in the biology of fertilization] Voprosy biologii oplodotvoreniia. Pod red. N.V. Turbina. Leningrad, Izd-vr Leningradskogo univ., 1954. 392 p. (MLRA 7:11)

Deystvitel'nyy chlen Akademii nauk Belorusskoy SSR (for Turbin).
 Leningrad. Universitet.
 (Fertilization (Biology))





TURBIN, N. V.

"Peculiar Methods of Proving the New Theory of the Formation of Species," Usp. Source.
Biol., 37, No.3, pp 361-65, 1954

Translation M-696, 19 Aug 55

A-l

IUKEIT, N.V.

Category: USSR/General Division. General Problems. Philosophy.

Methodology.

Abs Jour: Referat Zh.-Biol., No 6, 25 March 1957, 21264

Author : Turbin, N.V.

Inst

: not given Moscow Society of Matenalists : For Darwinism in the Theory of Evolution of Species. Title

Orig Pub: Byul. Mosk. o-va ispigatelei prirodi, otd. biol., 1954,

59, No 5, 77-92

Abstract: Preliminary results are given of the discussion on problems of evolution of species, one of the initiators of which was the author. It is noted that the discussion was a fruitful one and showed the erroneousness of the new theory of evolution of species propagated by T.D. Lysenko. In the author's opinion, the overwhelming majority of botanists and representatives of other biological specialties expressed themsolves against Lysenko's views. The problem is discussed in

-31-

detail as to whether Darwinism rejects the qualitative changes Card : 1/2

Category: USSR/General Division. General Problems. Philosophy.

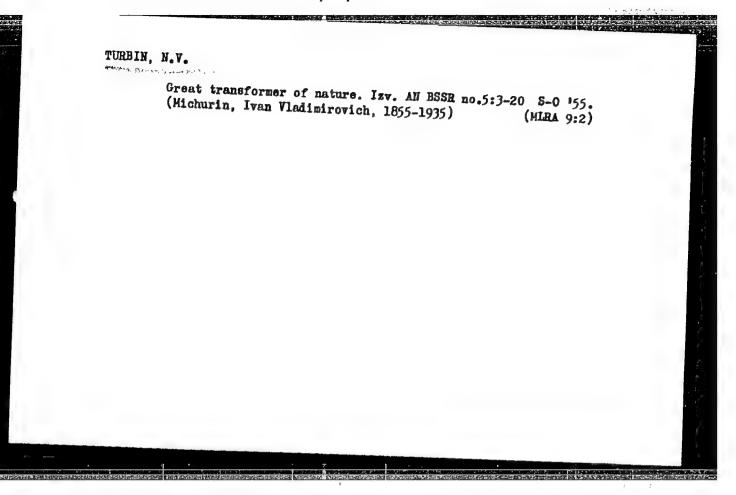
A-].

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21264

in development of living nature. The conclusion is made that Lysenko's viewpoint on this problem is erroneous.

Card : 2/2

-32-



TURBIN, N.V.; VOLODIN, V.G.

On the biology of wheat flowering. Dokl.AN SSSR 107 no.4:601-603 Ap 156. (MIRA 9:7)

1. Akademik AN BSSR (for Turbin).2. Institut biologii Akademii (wheat) (Plants, Flewering of)

USSR/Cultivated Flants - Grains.

M.

Abs Jour

: Ref Zhur - Biol., No 4, 1958, 15538

Author

: N.V. Turbin, Ye.I. Zalivskaya, A.N. Palilova, L.V. Khotyleva.

Inst

: The Biological Institute of the Academy of Sciences

Bielorussian SSR.

Title

: The 1955 Tests on Corn Variety, Strain and Hybrid Tes-

ting,

(Opyty 1955 g. po ispytaniyu sortov, liniy i gibridov

kukuruzy).

Orig Pub

: V sb.: Kukuruza v BSSR. Minsk. AN BSSR, 1957, 60-82

Abstract

: The division of genetics of the Biological Institute of the Academy of Sciences, Bielorussian SSR studied in 1955 the biological and economical peculiarities of various varieties, strains, and hybries of corn and the

Card 1/2

34

USSR/Cultivated Plants - Grains:

М.

Abs Jour

: Ref Zhur - Biol., No 4, 1958, 15538

initial stock in obtaining local highly productive hybrids and for explaining the factors which affect their heterosis. The results of testing more than 200 specimens of corn are given which were obtained from various quarters. Double interstrain hybrids yielded a bumper harvest in comparison with the best varieties and other corn hybrid forms. However, the parental strains from which the highly productive interstrain hybrids were gotten turned out to ripen very late. Hence, obtaining hybrid seeds by means of crossing these strains in Bielorussia is out of the question. In coming years the widest expanses in the Republic should be taken up with intervarietal hybrids.

Card 2/2

USSR/Cultivated Plants. Cereals.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77616.

nation. The best aligned progeny from the first year of self-pollintion was obtained with forming of the lines on simple and double inter-line hybrids. N. F. Fedorova.

Card : 2/2

USSR/Cultivated Plants. Grains.

11

Abs Jour : Ref Zhur-Biol., No 15, 1953, 68096

: Turbin, N. V., Volodin, V. G. : AS Bel SSR Institute of Biology. huthor Inst

Title : Supplementary Artificial Pollination of Ryc

with an Airplane.

Orig Pub : Byul. In-t: biol. AM BSSR, 1956 (1957), No 2,

199-202

Abstract: In 1956, in a kolkhoz of Hinsk Oblast! an area of 50 hectare was planted with Partizanskaya winter rye and given supplementary pollination by using a PO-2 type airplane. The yield on these areas was higher than on control areas.

-- 0. i. Gorbunov

Card : 1/1

15

USSR/General Biology. Evolution.

D-7

.Ds Jour: Ref Zhur-Biol., No 20, 1958, 90463.

Author : Turbin, H.V.

Inst : The Botanical Institute of the Academy of Sciences USSR.

Title : Open Problems in the Theory of Species Formation and
Facts Derived from Experiments on the Introduction and

Acclimatization of Plants.

3rig Pub: Tr. Botan. in-ta AM SSSR, 1957, vyp. 5, ser. 6, 138-143.

Abstract: Based on a generalization of an experiment in introduction work, it is noted that the transferring of a species to new climate and soil conditions is never accompanied by the formation of new species. In this namer, the theory of a sudden transition of one biological species into another one by a change in the

Card : 1/3

USSI:/General Biology. Evalution.

7-17

Abs Jour: Ref hur-Biol., No 20, 1958, 90463.

present conditions is clearly proven erroneous by the plant introduction experiment. Some authors confuse the formation of new forms obtained through introduction with the formation of species. The appearance of new forms, apparently originating from the seeds of hybrids, has been observed in Sotch' among eucalyptus seedlings. In Pamir, haryotype changes have been observed in the potato. The Antonovka winter apple has originated a vegetative mutant, the one and a half pound Antonovka Michurin apple, etc. All this attests to a process of formation of new forms which follows introduction and selection, but not the sudden regeneration of a new species from another one. The Darwinian concept of the

Card : 2/3

40

USSR/General Biclogy. Evolution.

D-7

Mos Jour: Ref Zhur-Picl., No 20, 1958, 90463.

origin of species by natural selection is in complete agreement with the known facts on the introduction and accliratization of plants. -- A. I. Kuptsev.

Card : 3/3

Category: General Biology.

Oceneral Genetics.

Abs. Jour: Rubbiol., No. 2, 1959, No. 5126

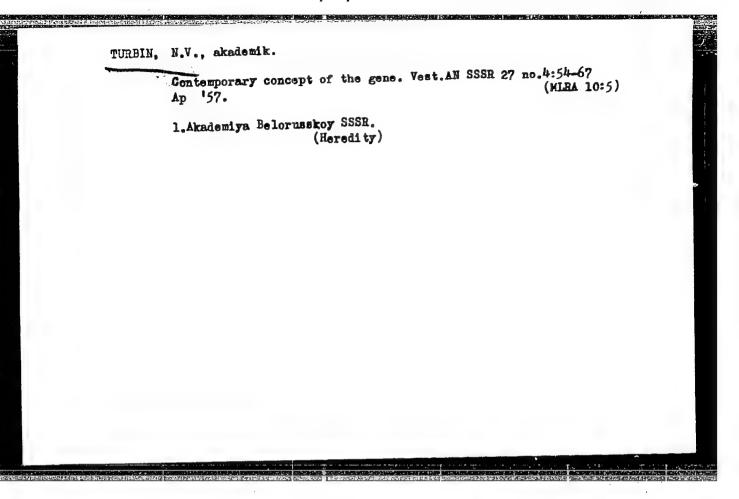
Author: Turbin, N. V.
Institut: The Contemporary View about Genes.

Oris, Pub.: Bul Univ. cheter. Firener. Ser. sidenc. natyr., 1957, 11, No. 2, 155-170

Abstract: No abstract.

Card: 1/1

-31-



Modern concepts of the gene. Uch.zap.BGU no.37:91-114 '57.

(MIRA 12:1)

1. AM BESE.

(HERMDITY)

#### CIA-RDP86-00513R001757510017-7 "APPROVED FOR RELEASE: 03/14/2001

UFSR/General Biology. Genetics

В

: Ref Biol., No 13, 1958, 57193 Abs Jour

Author

: Turbin I. V., Lobotskaya L. I., Kunitskit Ye. A.

Inst

: Deloruscian University

Title

: Main Results of the 1955-1955 Experiments for the Itudy of Varieties, Lines, and Hybrids of Maize as the Initial Form for the Selection of Hybrid Frize Under Conditions of Belorussian SSR

Orig Pub

: Pub. Uch. zap. Belorussk. un-t, 1957, vyp. 37,

255-327

Abstric

: On the basis of preliminary studies the following initial forms are recommended as the best for the selection of corn in Belorussia: early ripening and medium early--Kichkass'taya, Melkaya khulinskaya, Severyanka, Belaya Pireneyskaya, Voronezhskaya 76; medium ribening--

Card 1/2

33

В

UBSR/General Biology. Genetics Abs Jour : Ref Jaur-Eigl., Jo 13, 1958, 57193

Abstract

Mandorfskaya and Zubovidnaya 235. Of those formed from the "intskht line", Zubovidnaya 2112,
L-94, and N-95 are recommended. Good quality local intervariety hybrids have been obtained;
Michkasskaya+Mesthaya polesskaya 1, Geverodakotskaya+mixture of pollens of Abkhaz varieties.
In their yield they are superior to intervariety hybrids. An evaluation of intsukat-lines"
was made on the basis of their hybrids with available varieties of maize. The opinion has been
expressed that separate tests of a line make it
possible to hope that on their base highly productive interlineal hybrids may be obtained in
the future.

Card 2/2

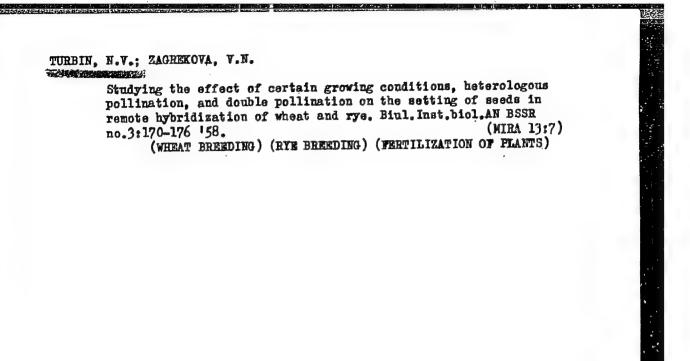
TURBIN, N.V., akademik

Science and culture in the Rumanian People's Republic. Vestsi AE BSSR Ser. biial. nev. no. 2:103-111 '58. (HIRA 11:8)

1. AN BSSR.

(Rumania -- Research)

TURBIN, N	I.V.	
E t	decent data on the biology of fertilization of seed plants; theses of a report. Biul. Inst.biol. AN BSSR no.3:167-169 '58.  (MIRA 13:7)  (FERTILIZATION OF PLANTS)	
,		



Dependence of variation in characters in self-pollinated lines of corn on the quality of parent material. Biul. Inst. biol. AM BSSR no.3:177-181 \*58. (MIRA 13:7)

(HYBRID CORN)

TURBIN, N.V.; KEDROVA-ZIKHMAN, L.V.

Depression in plants of self-pollinated lines of corn S<sub>1</sub> crossed with different parent material. Biul. Inst. biol. AN BSSR no.3: 182-184 '58. (MIRA 13:7)

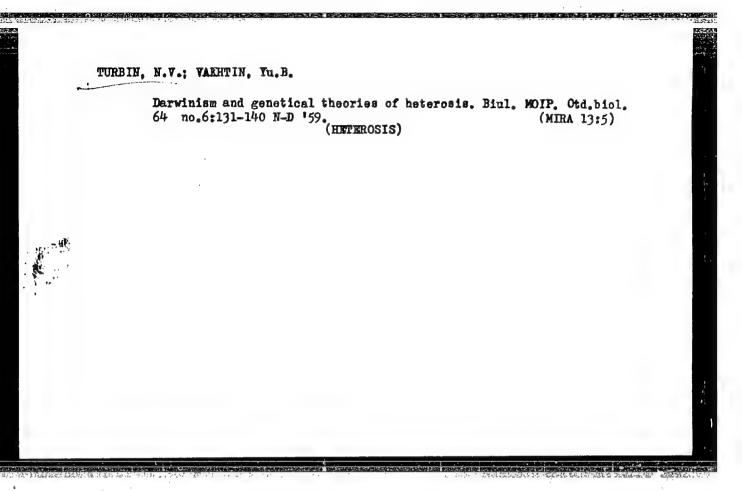
(HYBRID CORN)

TURBIN, N.V.; PALILOVA, A.N.

\*\*Mffect of genetic homogeneity of parent material on the degree of heterosis in corn hybrids. Birl.Inst.biol.AN BSSR no.3:185-189 \*58.

(HYBRID COHN) (HETEROSIS)

(HYBRID COHN) (HETEROSIS)



VINBERG, Georgiy Georgiyevich; ROSSOLIMO, L.L., retsenzent; KUZNETSOV,
S.I., retsenzent; TURBIN, N.V., akademik, red.; BULAT, O.,
red.izd-va; TIMOSHCRUK, Iv., tekhn.red.

[Primary production of bodies of water] Pervichnais produktsiia
vodoemov. Minsk, Izd-vo Akad.nauk BSSR, 1960. 329 p.

(MIRA 13:8)

1. AN BSSR (for Turbin).

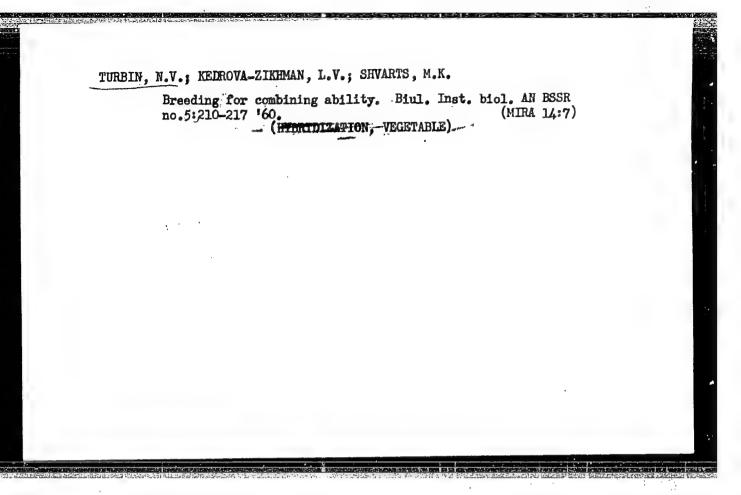
(Phytoplankton)

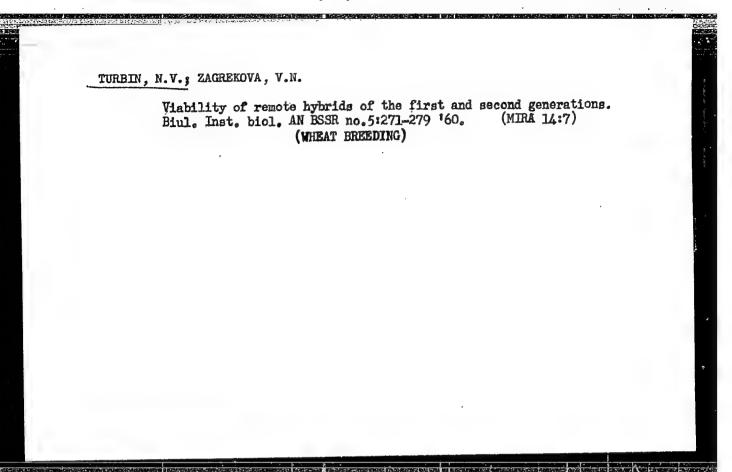
THERIN, N.V., akademik; BORMOTOV, V.Ye., starshiy nauchuyy sotrudnik

Current status and achievements of biology in the Hungarian
People's Republic. Vestsi AN BSSR. Ser.biial.nav. no.1:130139 '60.

1. AN BSSR (for Turbin).

(HUNGARY--BIOLOGY)





TURBIN, N.V., akademik, red.; BARMICHEV, V., red.izd-va; TURTSEVICH, L., tekhn. red.

[Heterosis; theory and methods for practical application] Geterozis; teoriia i metody prakticheckogo ispol'zovaniia. Pod red. N.V.Turbina. Minsk, Izd-vo Akad.nauk BSSR, 1961. 264 p. (MIRA 15:3)

1. Akademiya navuk BSSR, Minsk. Instytut biyalogii. 2. Akademiya nauk Belorusskoy SSR (for Turbin).

(Heterosis)

(MIRA 14:12)

TURBIN, N.V.; KEDROVA-TIKHMAN, L.V.

Breeding self-pollinated corn lines and evaluating them by their combining ability. Sbor. nauch. rab. Bel. otd. VBO no.3:127-136

161.

(Corn breeding)

TURBIN, N.V.; BORMOTOV, V.Ye.

Breeding of polyploid beets in the Hungarian People's Republic;
regults of a scientific mission. Sbor. nauch. rab. Bel. otd.
VEO no.3:240-249 '61. (MIRA 14:12)
(Hungary.-Beet breeding)
(Polyploidy)

TURBIN, N.V., akademik, otv. red.; BORMOTOV, V.Ye., kand. biol. nauk, red.; KHOTYLEVA, L.V., kand. biol. nauk, red.; PALILOVA, A.N., kand. biol. nauk, red.; DAVIDOVICH, Z., red. izd-va; ATLAS, A., tekhn. red.

[Genetics and cytology of plants]Genetika i tsitologiia rastenii. Minsk, Izd-vo Akad. nauk BSSR, 1962. 121 p.
(MIRA 16:3)

1. Akademiya nauk Belorusskoy SSR (for Turbin).
(Plant breeding)

TURBIN, N. V.,

"Heterosis and Genetic Balance."

report submitted for the 11th Intl. Congress of Genetice, The Hague, Netherlands, 2-10 Sep 63

TURBIN, N.V., akademik, otv. red.; VOLODIN, V.G., kand. biol. nauk, red.; PALILOVA, A.N., red.; KHOTYLEVA, L.V., red.

[Genetics of heterosis] Genetika geterozisa. Minsk, Izdvo "Nauka i tekhnika," 1964. 74 p. (MIRA 18:12)

- 1. Akademiya navuk BSSR, Minsk. Otdel genetiki i tsitologii.
- 2. Akademiya nauk Belorusskoy SSR (for Turbin).

## "APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510017-7

TURBIN, N.V.; ANOKHINA, V.S.

Causes of the "degeneration" of fodder lupine and methods of its elimination. Biul. MOIP. Otd. biol. 68 no.1:116-132 Ja-F '63. (MIRA 17:4)

## "APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510017-7

TURBIN, N.V.; ANOKHINA, V.S.

Restoration of alkaloid biosynthesis in grafting pairs of incompatible varieties of fodder lupine. Vestai AN BSSR. Ser. biial. nav. no.1:15-21 '64. (MIRA 17:6)

MOSSE, I.B.; TURBIN, N.V.; FREYMANIS, Ya.F.

Effect of conjugate arcmatic systems on heredity. Report No.1: Mutagenic and antimutagenic effect of some indene compounds. Dokl. AN BESR 8 no.12:827-829 D '64. (MIRA 18:4)

1. Otdel genetiki i tsitologii AN BSSR.

TURBIN, N. V., akademik; MIRONENKO, A. V.; SPIRIDONOVA. G. I.; ANOKHINA, V. S.

Restoration of alkaloid biosynthesis in hybrid lupine obtained from crossing incompatible pairs of alkaloidless variaties.

Dokl. AN SSSR 155 no. 2:448-450 Mr '64. (MIRA 17:5)

l. Institut botaniki i mikrobiologii i Otdel genetiki i tsitologii A. BSSR. . . . AN BSSR (for Turbin).

TURBIN, N.V., akademik; TROITSKIY, N.A.; FILIPPOVICH, A.S.; BUDOVSKIY, E.I.; KOCHETKOV, N.K.

Comparison of the mutagenic activity of hydroxylamine and 0-methyl-hydroxylamine. Dokl. AN SSSR#158 no.5:1197-1198 0 64. (MIRA 17:10)

1. AN BSSR (for Turbin). 2. Chlen-korrespondent AN SSSR (for Kochetkov).

TURBIN, N.V., akademik; BORMOTOV, V.Ye.; SAVCHENKO, V.K.; MATOSHKO, I.V.

Nucleic acid content in the pollen of diploid and tetraploid sugar beets. Dokl. AN SSSR 161 no.2:463-465 Mr 165.

(MIRA 18:4)

1. Otdel genetiki i tsitologii AN BSSR. 2. AN BSSR (for Turbin).

TURBIN, N.V.; CONCHAROVA, R.I.

Study of the genetic effect of access of tark legical compounds on Drosophila melanogaster. Genetika no. 6:94-97 D \*65 (E.R. 1921)

1. Institut genetiki i tsitologii AN BSSR, Minck.

L 11621-66  $E \times T(1) / E \times A(1) / E \times A(b) - 2$ ACC NR. AP6001.736 SOURCE CODE: UR/0020/65/165/00L/0931/0932 Goncharova, R. I.; Turbin, N. V. (Academician AN BSSR) 33 AUTHOR: ORG: Genetics and Cytology Institute of the Academy of Sciences BSSR (Institut genetiki i tsitologii Akademii nauk BSSR) TITLE: Antimutagenic effect of certain sulfanilamides AN SSSR. Doklady, v. 165, no. 4, 1965, 931-932 SOURCE: TOPIC TAGS: animal experiment, sulfanilamide, biologic mutation ABSTRACT: Streptocid or sulcymide was added in sublethal concentrations to standard nutritive media in 2 series of experiments on Drosophila melanogaster lines D-18 and ClB/w to determine antimutagenic effects. In the first series, fertilized females of the D-18 line were placed on mutritive media containing one of the preparations to lay their larvae; 1 to 3 days after hatching, males were selected and crossed with females of the ClB/w line. In the second series, adult males of the D-18 line were placed in a test tube containing nutritive media with one of the preparations for 2 to 3 days and were then crossed with females of the ClB/w line. Antimutagenic effects were determined by the frequency of spontaneous recessive sex-linked lethal mutations in the offspring. Findings show that streptocid and sulcymide Card 1/2

### L 11621-66

### ACC NR: AP6001736

both displayed a marked antimutagenic effect (0.09±0.03% mutations) in the first series in which the males spent their entire developmental cycle in a medium containing one of the sulfanilamide preparations. Spontaneous mutation was not inhibited by the preparations in the case of adult males (0.38±0.42% mutations) in the second series. The author suggests another possible but rather unlikely interpretation of these data; that is, that the preparations produce a selective effect on the sex cells whereby some of the mutant gametes are practically excluded from fertilization. Strictly speaking, a mutation frequency reduction of this type is not an antimutagenic effect. Also, it is difficult to explain why the sulfanilamide preparations would affect the sex cells only at the larva stage and not at the adult stage. Orig. art. has:

[06]

SUB CODE: 06, 07/ SUBM DATE: 26Jul65/ ORIG REF: 007/ ATD PRESS: 4/77

Card 2/2

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757510017-7"

# "APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510017-7

KHOTYLEVA, Lyubev' Vladimirovna; TURBIN, N.V., red.

[Breeding hybrid corn; principles and methods for interbreeding capacity] Selektsiia gibridnoi kukuruzy; printsipy i metody selektsii na kombinatsion-miu sposobnost. Minsk, Nauka i tekhnika, 1965. 166 p. (MIRA 19:1)

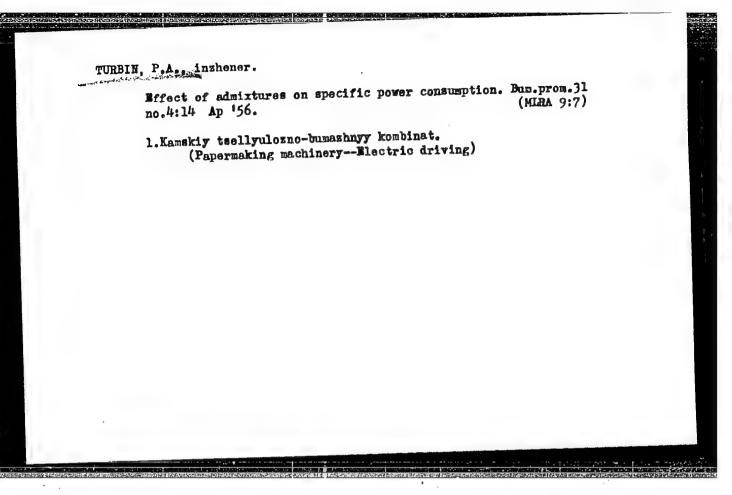
TURBIN, N.W.; TARUTINA, L.A. [Tarutsina, L.A.]; KHOTYLEVA, L.V. [Khatyliova, L.V.]

Results of testing mathematical models for the determination of combining ability. Vestsi AN BSSR. Ser. bilal nav. no.1:74-81 '65. (MIRA 18:5)

AKEMEDOVA, Z.P. [Akhmedava, Z.P.]; DOBINA, I.A.; "ARUTINA, L.A. [Tarutsina, L.A.]; TURBIN, N.V. [Turbin, M...]; ...DURLEVA, L.V. [Khatyliova, L.V.]

Change in the rate of righting and heterosis of corn under various cultivation conditions. Vestsi AN BSSR Ser. blial. nav. no.3:54-64 (MIRA 18:1)

164.



S/203/61/001/005/025/028 A006/A101

AUTHORS:

Shachun'kina, V.M., Turbin, R.I.

TITIE:

Preliminary results of observing the ionospheric effect of the so-

lar eclipse on February 15, 1961

PERIODICAL:

Gecmagnetizm i aeronomiya, v. 1, no. 5, 1961, 835 - 838

An expedition to Tbilisi was organized for the purpose of studying the ionospheric effect of the sclar eclipse of February 15, 1961. The phase of eclipse was 0.955 for 240 km altitude. Ionospheric observations over Tbilisi were carried out for the first time; an (-4 (S-4) type ionosound was employed. An analysis of f-graphs plotted shows considerable variability of f F2 during the day. The E layer is characterized by the frequent appearance of the E2 layer at 200 km altitude. A marked decrease of critical frequencies of the E, E2 and F1 layers was observed immediately after the beginning of the eclipse. The minimum of electronic density in the E and F1 layers coincides with the maximum phase of the eclipse. Regular changes in  $f_0E$  and  $f_0Fl$  during the eclipse made it possible to determine the recombination factor for these layers. For the E-layer  $\propto E = 1.5 \cdot 10^{-8}$  cm/sec,  $q_0 = 400$  el/cm<sup>3</sup> sec. For  $F_1 \propto F_1 = 2.10^{-9}$  cm<sup>3</sup>/sec. In Card 1/2

S/203/61/001/005/025/028 A006/A101

Preliminary results ...

the critical frequencies of F2 layer a marked effect of the eclipse was not detected. The results obtained are in agreement with previous investigations by A.L. Al'pert who established that frequently the foF2 values in middle and southern latitudes do not change considerably during the eclipse. The effect of the eclipse is marked in the lower part of the ionosphere and decreases gradually with the height. It often vanishes completely at the level of the F2 maximum, The authors thank D. Kavadze, M. Tevdoráshvili, D. Chikovani and T. Khundzhua, workers of the Tbilisi University and the Institute of Geophysics, AS Georgian SSR. There are 4 figures and 2 references: 1Soviet-bloc and 1 non-Soviet-bloc.

Institut zemnogo magnetizma, ionosfery i rasprostraneniya radic-

voln AN SSSR (Institute of Terrestrial Magnetism, Ionosphere and

Propagation of Radiowaves, AS USSR)

SUBMITTED:

July 28, 1961

Card 2/2

S/203/61/001/005/027/028 A006/A101

AUTHORS:

Ben'kova, N.P., Turbin, R.I., Fligel', M.D.

TITLE:

Solar radiobursts at 28 Megacycle frequency on July 12, 1961

PERIODICAL:

Geomagnetizm i aeronomiya, v. 1, no. 5, 1961, 842 - 843

TEXT: Cosmic radio-emission at 28 Megacycle frequency is reguarly recorded at the ionospheric department of IZMIRAN for the purpose of studying ionospheric absorption. An analysis of the recordings showed that in some cases chromospheric flares caused a greater intensity of signals, which was particularly high during the chromospheric flare on July 12, 1961. The data recorded show that the chromospheric flare was accompanied by radiobursts of types II and IV which were strongly different as to time and nature. During bursts of type II and IV, the radioradiation intensity increased in the centimeter, meter and 30 Megacycle range (10 meters). This fact does not confirm the concept that the spectrum of type II bursts rapidly decreases with reduced frequency. The different nature of radioradiation during II and IV type bursts confirms E.I. Mogilevskiy's hypothesis on different mechanisms of generation: plasma, oscillations in the solar atmosphere

Card 1/2

#### "APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510017-7

S/203/61/001/005/027/028 A006/A101

Solar radiobursts at 28 Megacycle frequency ...

in the case of type II bursts, and synchrotronous radiation of relativistic electrons in the case of type IV bursts. There are 1 figure and 2 Soviet-bloc references.

Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln ASSOCIATION:

AN SSSR (Institute of Terrestrial Magnetism, Ionosphere and Propa-

gation of Radiowaves, AS USSR)

September 11, 1961 SUBMITTED:

Card 2/2

CIA-RDP86-00513R001757510017-7" APPROVED FOR RELEASE: 03/14/2001

KOBO ORTS, Kh. [Cobo Orts, J.]; PIKUS, Z.R.; POKHYALINA, I.M.;

TSIMMERMAN, M.G.; THERIN, T.M., retsenzent; VOSKOBOTNIK, D.I.,
doktor tekhn.nauk, nauchnyy red.; PUTCH-TORRES, Ih. [Puig Torrea, J.],
inzh., red.; SOBOLEVA, N.M., tekhn.red.

[Concise Spanish-Russian and Russian-Spanish scientific and technical
dictionary] Kratkii ispansko-russkii i russko-inpanskii nauchnotekhnicheskii slovar'. Nauchn.red. D.I. Voskobotnik, Red.K.Puich-Torres.
Noskva, Akad.nauk SSSR, In-t nauchn.informatsii, 1960. 438 p.

(Spanish language-Dictionaries--Russian)
(Spanish language-Dictionaries--Spanish)
(Technology--Dictionaries)

TORBIN, Y

AUTHOR:

TURBIN, Vo, Member of the Byelorussian

PA = 2648

TITLE:

Academy of Science.

Problems of Genetics - Something about the Present Conception of

the Gene. (O sovrem'onnoi kontseptsii gena, Russian)

PERIODICAL:

Vestnik Akademii Nauk SSSR, 1957, Vol 27, Nr 4, pp 54 - 67

(U.S.S.R.)

Received: 5 / 1957

Reviewed: 6 / 1957

ABSTRACT:

Proceeding from the works by the prominent American geneticists. STADLER and M. DOMERTS (who defend the present conception of the gene as a given unit of hybridological analysis), the author expresses his own opinion concerning this important problem. In the Sviet Union the works of the two Americans were subjected to sharp criticism, which, however, should not prevent an inbiased and objective investigation of actual facts, for this is what is concerned in this case. It must be pointed out, that the conception of this gene is closely connected with the research of mutations. It must be born in mind in this connection (also according to STADLER) that not any kind of mutation at present known in genetics is of importance, but only such as have been caused by gene. At first observations depended on technical conditions which were closely connected with the great rarity of this mutative phenomenon. The "inner property" of an organism to develop this or another character-

Card 1/2

PA = 2848

Problems of Genetics - Something about the Present Conception of the Gene.

istic was called a factor (gene) by BAUR. Later this conception was criticized and the opinion expressed by the Morgan School prevailed (which considered the gene to be a material particle, a corpuscle). However, in the course of recent years a remarkable change took place in that, gradually, the original conceptions are again being adopted. In the course of the past 10 years development was rather complicated and difficult, the conception of gene has by no means become less hypothetical, but, nevertheless, quite waluable material has been accumulated.

ASSOCIATION: Not given.

PRESENTED BY:

SUBMITTED:

AVAILABLE: Library of Congress

Card 2/2

TURBIN, V.N.

Condensation of water vapor in drainage pipes. Pochvovedenie no.6:113-117 Je '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki i melioratsii imeni Kostyakova. Submitted April 3, 1964.

TURBIN, V.N., kand. sel'skokhoz. nauk

Draining effect of subs lace collectors in the Far East. Gidr. 1 mel. 15 no.1247 42 D 63. (MIRA 17:2)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut gidro-tekhniki i melioratsii im. Kostyakova.

### "APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510017-7

TURBIN, V. N., Cand Agric Sci (diss) -- "The use of underground drainage in the fight against period overflooding of heavy clayey soils, under the conditions of Moscow Oblast". Moscow, 1960. 24 pp (Moscow Order of Lenin Agric Acad im K. A. Timiryazev), 110 copies (KL, No 11, 1960, 136)

TURBIN, Yu. N., kand. med. nauk

Use of hexonium in the preoperative preparation of patients with thyrotoxicosis. Probl. endok. i gorm. 8 no.3:73-76 My-Je '62. (MIRA 15:6)

1. Iz gospital'noy khirurgicheskoy kliniki imeni prof. V. M. Bogoslavskogo (zav. - prof. R. V. Bogoslavskiy) Donetskogo meditsinskogo instituta imeni A. M. Gor'kogo.

(HYPERTHYROIDISM) (HEXONIUM)

# "APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510017-7

AUTHOR: Berezin, V. I.; Zubov, V. A.; Kats, M. L.; Kovner, M. A.; Sidorov, B. K.; Stal'makhova, L. S.; Sushchinskiy, M. M.; Turbin, Yu. P.; Shubalov, I. K.  ORG: none  Z/  TITLE: Intensities and line thresholds of stimulated Raman scattering  SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 4, 1966, 351-353  TOPIC TAGS: laser, stimulated emission, Raman scattering, stimulated Raman scattering and pride the relative values for the threshold I for the intensity of the exciting light necessary to attain stimulated Raman scattering in toluene, chlorobenzene, and pyridene have been measured. Using a theory of SRS developed by P. A. Apanasevich and B. I. Stepanov (Zhurnal prikladnoy spektroskopii, v. 1, 1964, p. 202), the suthors derived the following formula  IB/I = (Im/6)/(Im/6)B v3/6B/v63 n3/B/n3, (1)  Where I is the integral intensity of the SRS line, 6 is the line width, vg is the frequency of the scattered light, n is the index of refraction, and the subscript B identifies these quantities for benzene. The experimental values of	L 31134-66 EMP(1)/EWT(1)/EWT(m)/EMP(e) RM/WH ACC NR: AP6012859 SOURCE CODE: UR/0368	66/004/0351/0353
FITLE: Intensities and line thresholds of stimulated Raman scattering  SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 4, 1966, 351-353  EXPIC TAGS: laser, stimulated emission, Raman scattering, stimulated Raman scattering destract: The relative values for the threshold I for the intensity of the exciting light necessary to attain stimulated Raman scattering in toluene, chlorobenzene, and pyridene have been measured. Using a theory of SRS developed by P. A. Apanasevich and B. I. Stepanov (Zhurnal prikladnoy spektroskopii, v. 1, 1964, p. 202), the suthors derived the following formula $I_B/I = (I_m/6)/(I_m/6)_B v^3_{\beta B}/v^3_{\beta} n^3_{B}/r^3, \qquad (1)$ here I is the integral intensity of the SRS line, 6 is the line width, vg is the requency of the scattered light, n is the index of refraction, and the ubscript B identifies these quantities for benzene. The experimental values of	AUTHOR: Berezin, V. I.: Zubov, V. A. Kata M. I. Zanov, V.	A.; Sidorov, H. K.;
CITLE: Intensities and line thresholds of stimulated Raman scattering $B$ SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 4, 1966, 351-353 SOPIC TAGS: laser, stimulated emission, Raman scattering, stimulated Raman scattering and BSTRACT: The relative values for the threshold I for the intensity of the exciting ight necessary to attain stimulated Raman scattering in toluene, chlorobenzene, and pyridene have been measured. Using a theory of SRS developed by P. A. Apanasevich and B. I. Stepanov (Zhurnal prikladnoy spektroskopii, v. 1, 1964, p. 202), the uthors derived the following formula $I_B/I = (I_m/6)(I_m/6)_B  v^3_{\beta B}/v_\beta^3  n^3_{B}/n^3, \qquad (1)$ here I is the integral intensity of the SRS line, $\delta$ is the line width, $v_\beta$ is the requency of the scattered light, $n$ is the index of refraction, and the ubscript $B$ identifies these quantities for benzene. The experimental values of		54
OPIC TAGS: laser, stimulated emission, Raman scattering, stimulated Raman scattering BSTRACT: The relative values for the threshold I for the intensity of the exciting ight necessary to attain stimulated Raman scattering in toluene, chlorobenzene, and pyridene have been measured. Using a theory of SRS developed by P. A. Apanasevich and B. I. Stepanov (Zhurnal prikladnov spektroskopii, v. 1, 1964, p. 202), the uthors derived the following formula $I_B/I = (I_m/6)/(I_m/\delta)_B  v^3_{\beta B}/v_\beta^3  n^3_B/n^3, \qquad (1)$ here I is the integral intensity of the SRS line, $\delta$ is the line width, $v_\beta$ is the requency of the scattered light, $n$ is the index of refraction, and the ubscript $B$ identifies these quantities for benzene. The experimental values of	PITLE: Intensities and line thresholds of stimulated Raman sca	· ·
BSTRACT: The relative values for the threshold I for the intensity of the exciting ight necessary to attain stimulated Raman scattering in toluene, chlorobenzene, and pyridene have been measured. Using a theory of SRS developed by P. A. Apanasevich and B. I. Stepanov (Zhurnal prikladnoy spektroskopii, v. 1, 1964, p. 202), the uthors derived the following formula $I_B/I = (I_m/\delta)/(I_m/\delta)_B  v^3_{\beta B}/v_{\beta}^3  n^3_B/n^3, \qquad (1)$ here I is the integral intensity of the SRS line, $\delta$ is the line width, $v_{\beta}$ is the requency of the scattered light, $n$ is the index of refraction, and the ubscript $B$ identifies these quantities for benzene. The experimental values of	OURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 4, 1966,	51-353
BSTRACT: The relative values for the threshold I for the intensity of the exciting ight necessary to attain stimulated Raman scattering in toluene, chlorobenzene, and pyridene have been measured. Using a theory of SRS developed by P. A. Apanasevich and B. I. Stepanov (Zhurnal prikladnoy spektroskopii, v. 1, 1964, p. 202), the uthors derived the following formula $I_B/I = (I_m/\delta)/(I_m/\delta)_B  v^3_{\beta B}/v_{\beta}^3  n^3_B/n^3, \qquad (1)$ here I is the integral intensity of the SRS line, $\delta$ is the line width, $v_{\beta}$ is the requency of the scattered light, $n$ is the index of refraction, and the ubscript $B$ identifies these quantities for benzene. The experimental values of	OPIC TAGS: laser, stimulated emission, Raman scattering, stim	lated Raman scattering
there I is the integral intensity of the SRS line, 6 is the line width, vg is the requency of the scattered light, n is the index of refraction, and the ubscript B identifies these quantities for benzene. The experimental values of	and pyridene have been measured. Using a theory of SRS developed B. I. Stepanov (Zhurnal prikladnov spektroskopii v. 1. 106	, chlorobenzene,
ubscript B identifies these quantities for benzene. The experimental values of	$I_{B}/I = (I_{\infty}/6)/(I_{\infty}/6)_{B}  v^{3}_{\beta B}/v_{\beta}^{3}  n^{3}_{B}/n^{3}_{\bullet}$	(1)
1/2	ubscript B identifies these quantities for benzene. The ex	4.2
UDC: 535.22/36	ard 1/2 UDC: 535.22/36	2

	Table 1. Main paramete	rs a	nd osci	llat	ion	thres	hold	s for	SRS		2
	Substance	A. c.	5 ,	1			٥	H.	, g H		
	benzene 1,3-pentadiene 3-methyl-1,3-butadiene carbon disulfide styrene styrene styrene toluene	992 1655 1638 656 998 1602 1634 1003	12748 12765 13747 13405 12801 12769 13400	7 1 2 3 3 1,6	1 1.6 1.3 1.6 0.7 0.9 1.6 0.37	1 0.2 0.3 3 0.6 0.6 0.9	1.50 1.43 1.42 1.63 1.55 1.55 1.55	0.5 0.5 1.6 0.5 0.5	1 0.25 0.40 2.24 0.55 0.59 0.90 0.42 0.78	1	
1 45	substances investigated in the authors (Zhurnal eksp	eri me	ntal'n	t pay	teor	retic	1,56 1,51 n_an	OY Il	10.81 10.82 ier p	V. 41	, 1904
p. 784) Table 1) be unit values o	are compared with the theory. The value of 1/I for the y. Since the values of n(v) in for the D-line of sodi formulas and 1 table.	retice ling) fo	e Δν = r a ru	992 by V1	cm eser	in sour the	benze ce ve	ene w ere u culat	as ta mavai ions.	ken to lable, Orig	the

S/021/62/000/012/017/018 D205/D307

AUTHORS:

Synyave'kyy, V.G., Turbina, A.I. and Romankevych,

M.Ya.

TITLE:

The synthesis of p-aminostyrene

PERIODICAL:

Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 12,

1962, 1622-1623

OH

TEXT: p-Nitrophenyl chloromethyl carbinol, p-NO<sub>2</sub>-C<sub>6</sub>H<sub>4</sub>-CH-CH<sub>2</sub>-Cl, was cyclized in high yield to p-NO<sub>2</sub>-C<sub>6</sub>H<sub>4</sub>-CH-CH<sub>2</sub> with aqueous

alkali at 40-50°C, and the oxide was then reduced to p-NH<sub>2</sub>-C<sub>6</sub>H<sub>4</sub>-CH<sub>2</sub> CH<sub>2</sub>OH with (a) In dust in aqueous CaCl<sub>2</sub> and (b) H<sub>2</sub>, using Rancy nickel or platinized carbon, in benzene, at 50-60°C and under a pressure of 100-150 atm. p-/minophenyl ethyl alcohol was then dehydrated to p-aminostyrene, in high yield, by heating with solid KOH, in a stainless steel reactor, under N<sub>2</sub> or reduced pressure (8-10 mm Hg).

Card 1/2

### "APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510017-7

The synthesis of ...

S/021/62/000/012/017/018 D205/D307

ASSOCIATION: Institut khimii polimeriv ta monomeriv AN URSR (Institute of Chemistry of Polymers and Monomers of

the AS UkrSSR)

PRESENTED:

by A.I. Kiprianov, Academician

SUBMITTED:

March 5, 1962